

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| | |
|------------------------|--|
| Attorney Docket No. | 14386 |
| First Inventor | Wei |
| Title | Apparatus and Method for Conducting...Employing Sa |
| Express Mail Label No. | |

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 61]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 17]
5. Oath or Declaration [Total Pages 3]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.:

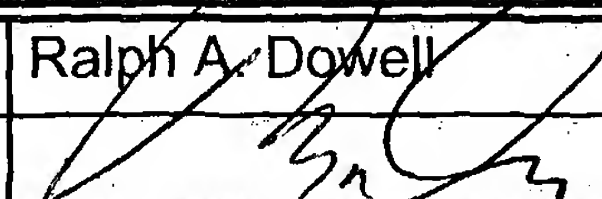
Prior application information:

Examiner:

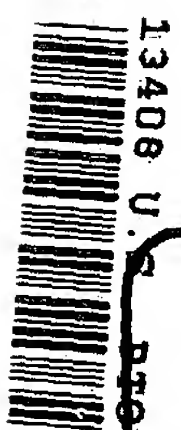
Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label 000293
(Insert Customer No. or Attach bar code label here) or ☐ Correspondence address below

| | | | | | |
|---------|--|-----------|--------------|----------|--------------|
| Name | Ralph A. Dowell of DOWELL & DOWELL, P.C. | | | | |
| Address | Suite 309, 1215 Jefferson Davis Highway | | | | |
| City | Arlington | State | VA | Zip Code | 22202 |
| Country | US | Telephone | 703 415 2555 | Fax | 703 415 2559 |

| | | | |
|-------------------|---|-----------------------------------|------------|
| Name (Print/Type) | Ralph A. Dowell | Registration No. (Attorney/Agent) | 26,868 |
| Signature |  | Date | 06/30/2003 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 820.00)

Complete if Known

| | |
|----------------------|---------------|
| Application Number | |
| Filing Date | June 30, 2003 |
| First Named Inventor | Wei |
| Examiner Name | |
| Art Unit | |
| Attorney Docket No. | 14386 |

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number: 04-1577 deficiencies only

Deposit Account Name:

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

| 1. BASIC FILING FEE | | | | | |
|---------------------|--------------|----------|----------|------------------------|----------|
| Large Entity | Small Entity | Fee Code | Fee (\$) | Fee Description | Fee Paid |
| | | 1001 | 750 | Utility filing fee | 375 |
| | | 1002 | 330 | Design filing fee | |
| | | 1003 | 520 | Plant filing fee | |
| | | 1004 | 750 | Reissue filing fee | |
| | | 1005 | 160 | Provisional filing fee | |
| SUBTOTAL (1) | | | | | (\$ 375) |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims: 51 - 20** = 31 X 9 = 279

Independent Claims: 6 - 3** = 3 X 42 = 126

Multiple Dependent: ☐ = ☐

| Large Entity | Small Entity | Fee Code | Fee (\$) | Fee Description | Fee Paid |
|--------------|--------------|----------|----------|--|----------|
| | | 1202 | 18 | Claims in excess of 20 | |
| | | 1201 | 84 | Independent claims in excess of 3 | |
| | | 1203 | 280 | Multiple dependent claim, if not paid | |
| | | 1204 | 84 | ** Reissue independent claims over original patent | |
| | | 1205 | 18 | ** Reissue claims in excess of 20 and over original patent | |
| SUBTOTAL (2) | | | | | (\$ 405) |

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

| 3. ADDITIONAL FEES | | | | | | |
|-----------------------------------|--------------|----------|----------|--|----------|--|
| Large Entity | Small Entity | Fee Code | Fee (\$) | Fee Description | Fee Paid | |
| | | 1051 | 130 | 2051 65 Surcharge - late filing fee or oath | | |
| | | 1052 | 50 | 2052 25 Surcharge - late provisional filing fee or cover sheet | | |
| | | 1053 | 130 | 1053 130 Non-English specification | | |
| | | 1812 | 2,520 | 1812 2,520 For filing a request for ex parte reexamination | | |
| | | 1804 | 920* | 1804 920* Requesting publication of SIR prior to Examiner action | | |
| | | 1805 | 1,840* | 1805 1,840* Requesting publication of SIR after Examiner action | | |
| | | 1251 | 110 | 2251 55 Extension for reply within first month | | |
| | | 1252 | 410 | 2252 205 Extension for reply within second month | | |
| | | 1253 | 930 | 2253 465 Extension for reply within third month | | |
| | | 1254 | 1,450 | 2254 725 Extension for reply within fourth month | | |
| | | 1255 | 1,970 | 2255 985 Extension for reply within fifth month | | |
| | | 1401 | 320 | 2401 160 Notice of Appeal | | |
| | | 1402 | 320 | 2402 160 Filing a brief in support of an appeal | | |
| | | 1403 | 280 | 2403 140 Request for oral hearing | | |
| | | 1451 | 1,510 | 1451 1,510 Petition to institute a public use proceeding | | |
| | | 1452 | 110 | 2452 55 Petition to revive - unavoidable | | |
| | | 1453 | 1,300 | 2453 650 Petition to revive - unintentional | | |
| | | 1501 | 1,300 | 2501 650 Utility issue fee (or reissue) | | |
| | | 1502 | 470 | 2502 235 Design issue fee | | |
| | | 1503 | 630 | 2503 315 Plant issue fee | | |
| | | 1460 | 130 | 1460 130 Petitions to the Commissioner | | |
| | | 1807 | 50 | 1807 50 Processing fee under 37 CFR 1.17(q) | | |
| | | 1806 | 180 | 1806 180 Submission of Information Disclosure Stmt | | |
| | | 8021 | 40 | 8021 40 Recording each patent assignment per property (times number of properties) | 40 | |
| | | 1809 | 750 | 2809 375 Filing a submission after final rejection (37 CFR 1.129(a)) | | |
| | | 1810 | 750 | 2810 375 For each additional invention to be examined (37 CFR 1.129(b)) | | |
| | | 1801 | 750 | 2801 375 Request for Continued Examination (RCE) | | |
| | | 1802 | 900 | 1802 900 Request for expedited examination of a design application | | |
| Other fee (specify) | | | | | | |
| *Reduced by Basic Filing Fee Paid | | | | | | |
| SUBTOTAL (3) | | | | | (\$ 40) | |

| | | | |
|-------------------|-----------------|-----------------------------------|---------------|
| SUBMITTED BY | | (Complete if applicable) | |
| Name (Print/Type) | Ralph A. Dowell | Registration No. (Attorney/Agent) | 26,868 |
| Signature | | Telephone | 703 415 2555 |
| | | Date | June 30, 2003 |

WARNING: Information in this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.